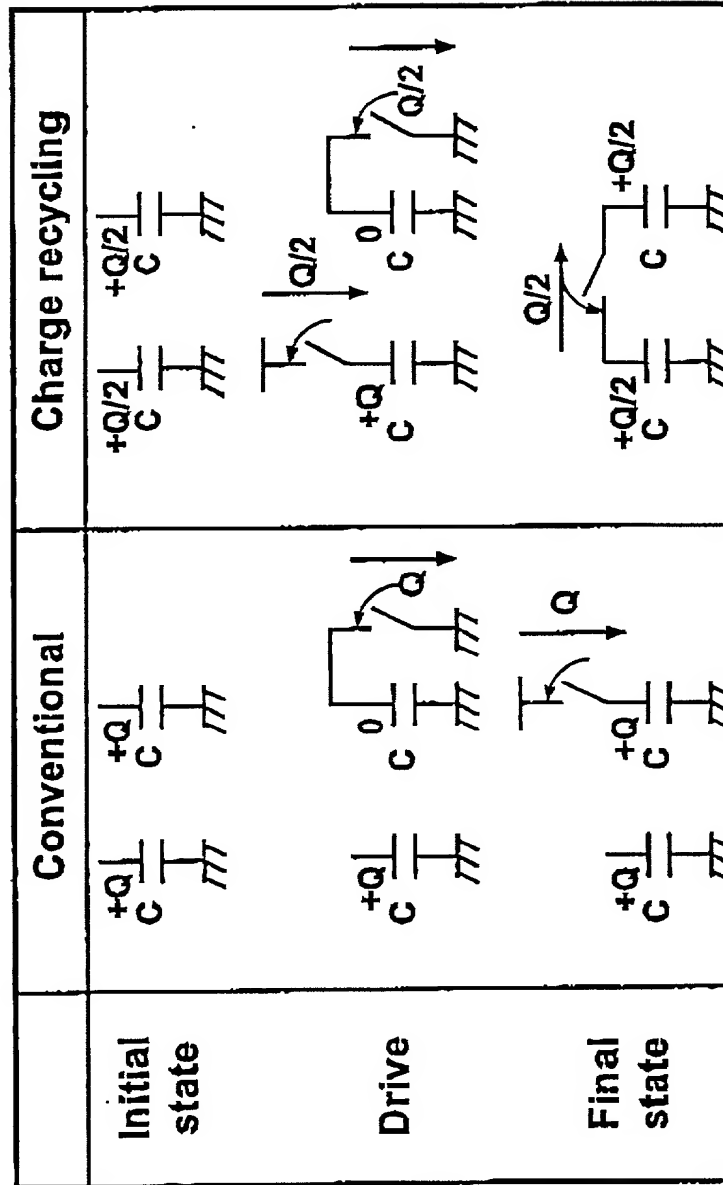


FIG. 1 PRIOR ART

	Conventional	Low swing signaling
Concept		
Power	$CV_{dd}^2 f$	$> CV_{dd} V_s f$
Delay	$CV_{dd}/(V_{dd}-V_{th})^\alpha$	$= CV_{dd}/(V_{dd}-V_{th})^\alpha$

FIG. 2 PRIOR ART



$$P_{\text{recycle}} = P_{\text{conv}}/2$$

FIG.3

PRIOR ART

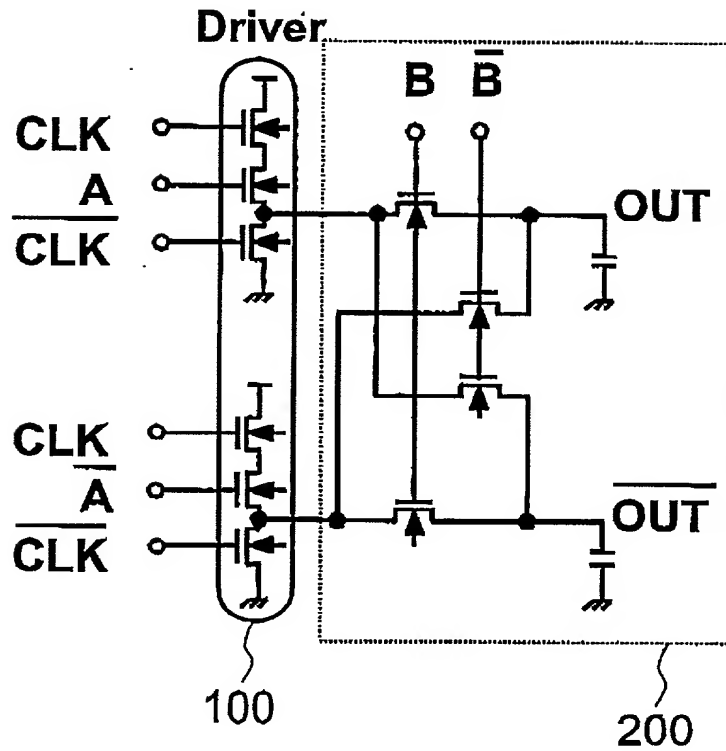


FIG.4

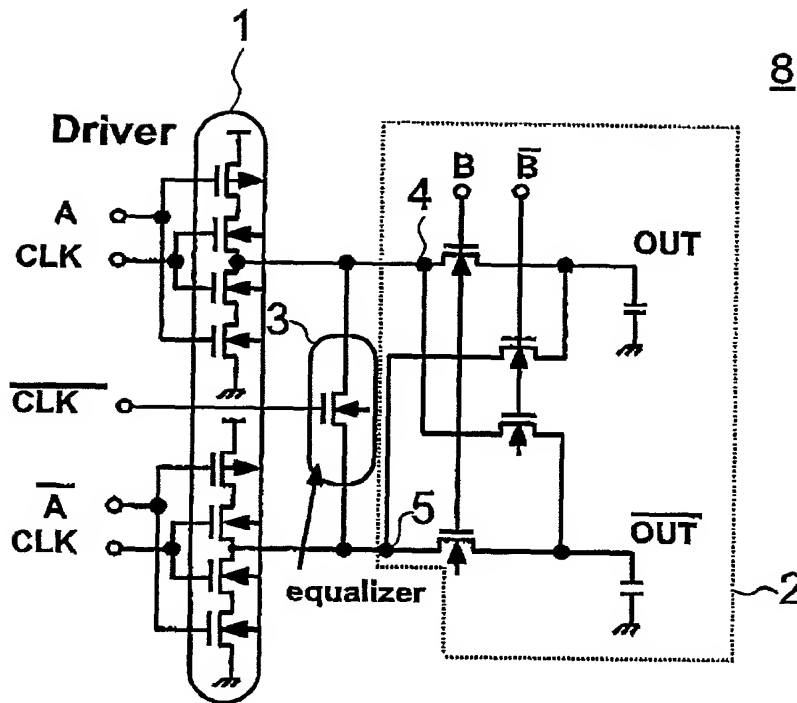


FIG. 5 PRIOR ART

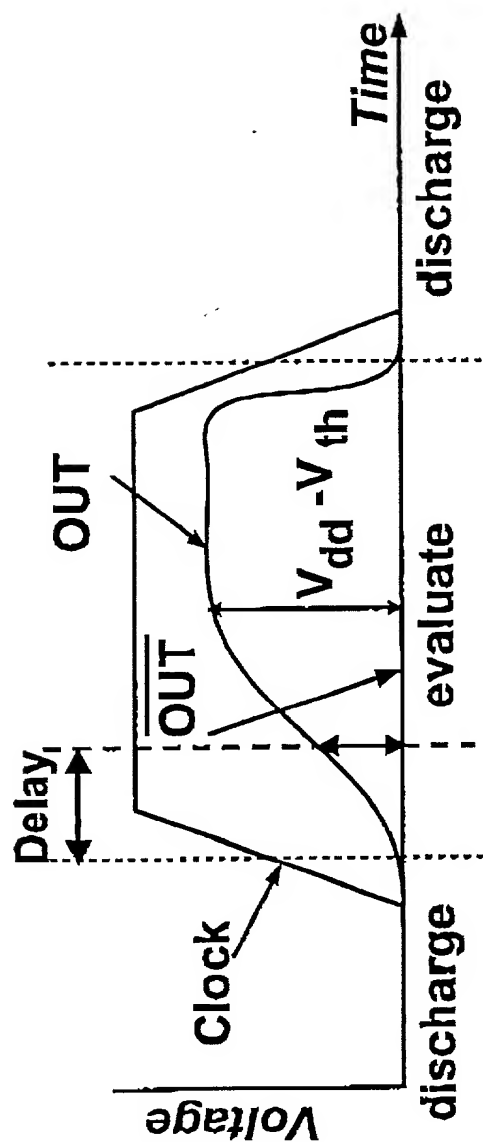


FIG. 7

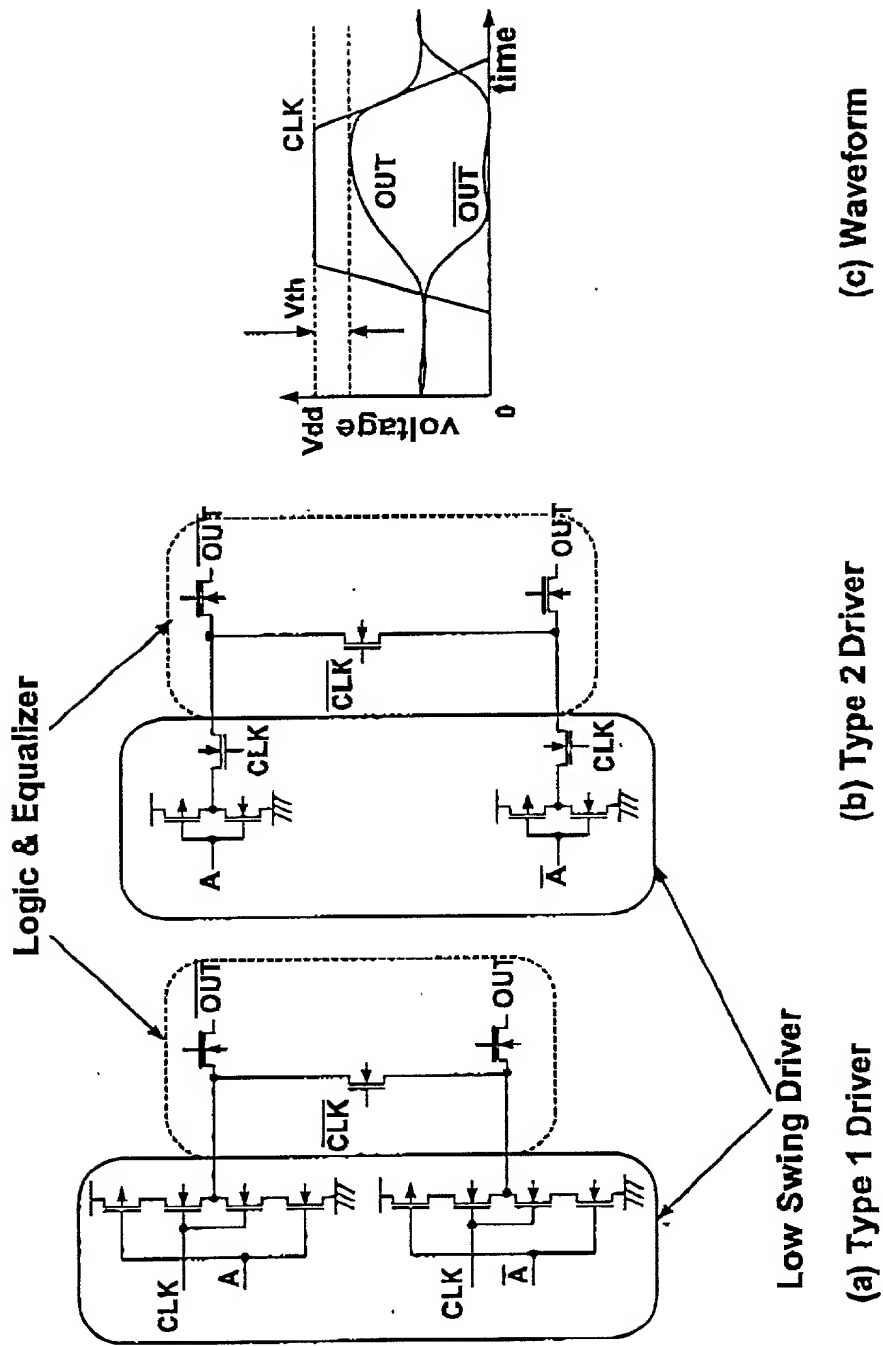


FIG. 8

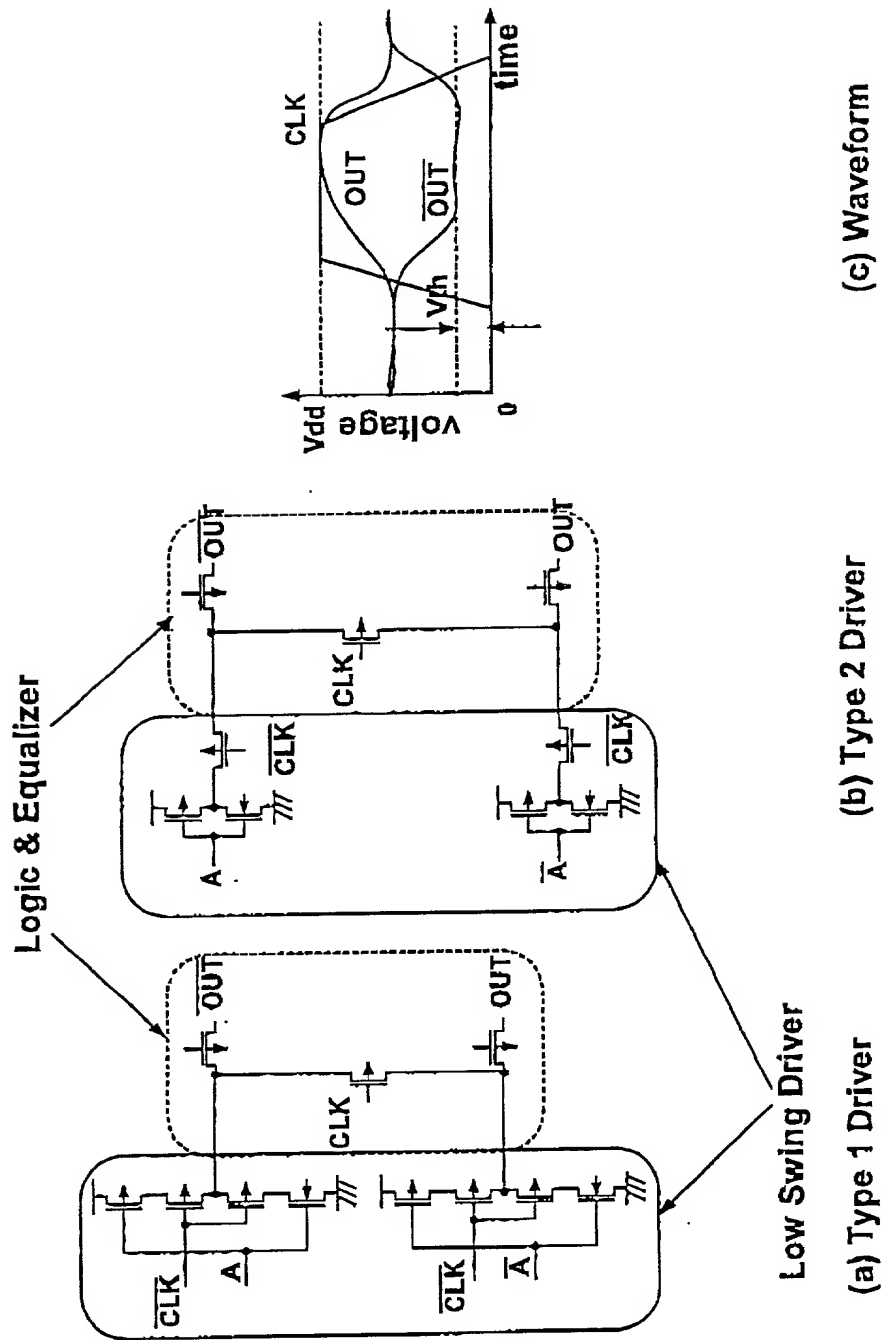


FIG. 9

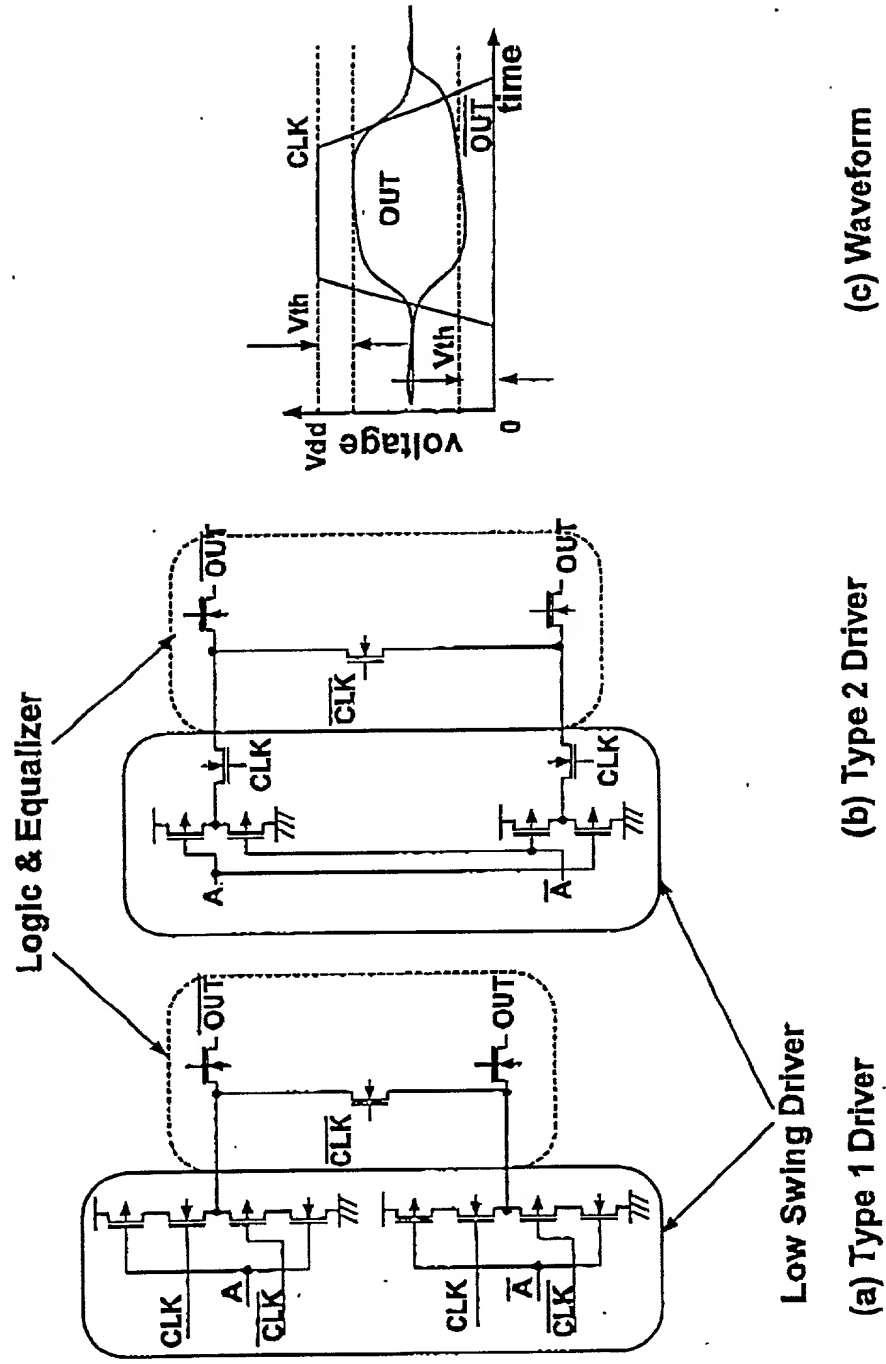


FIG.10

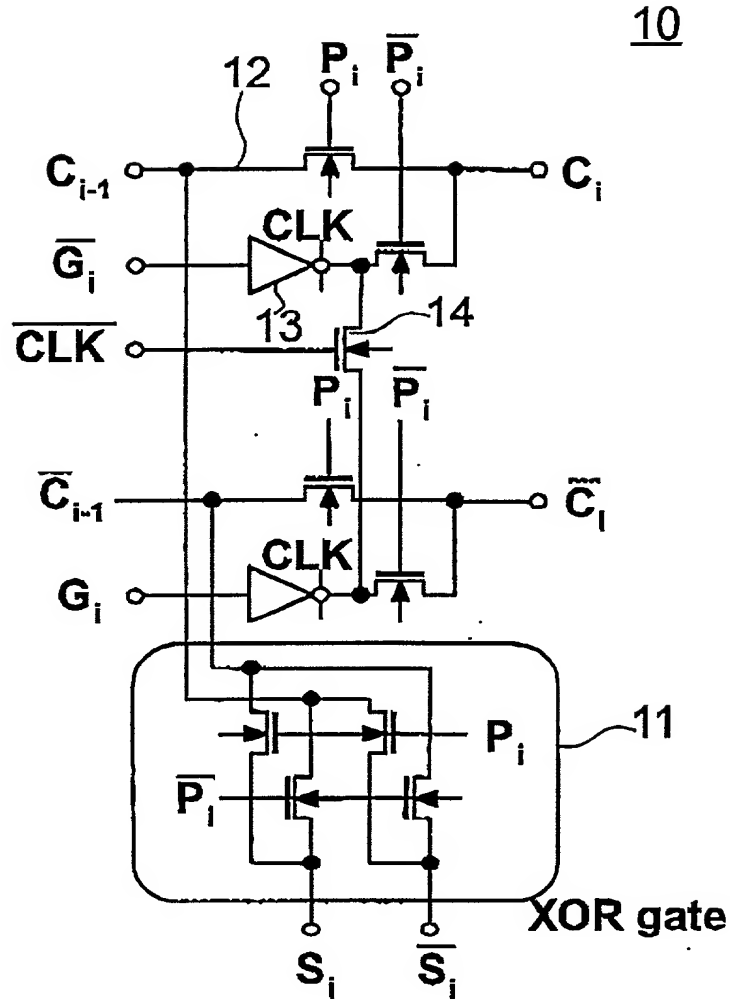


FIG. 13

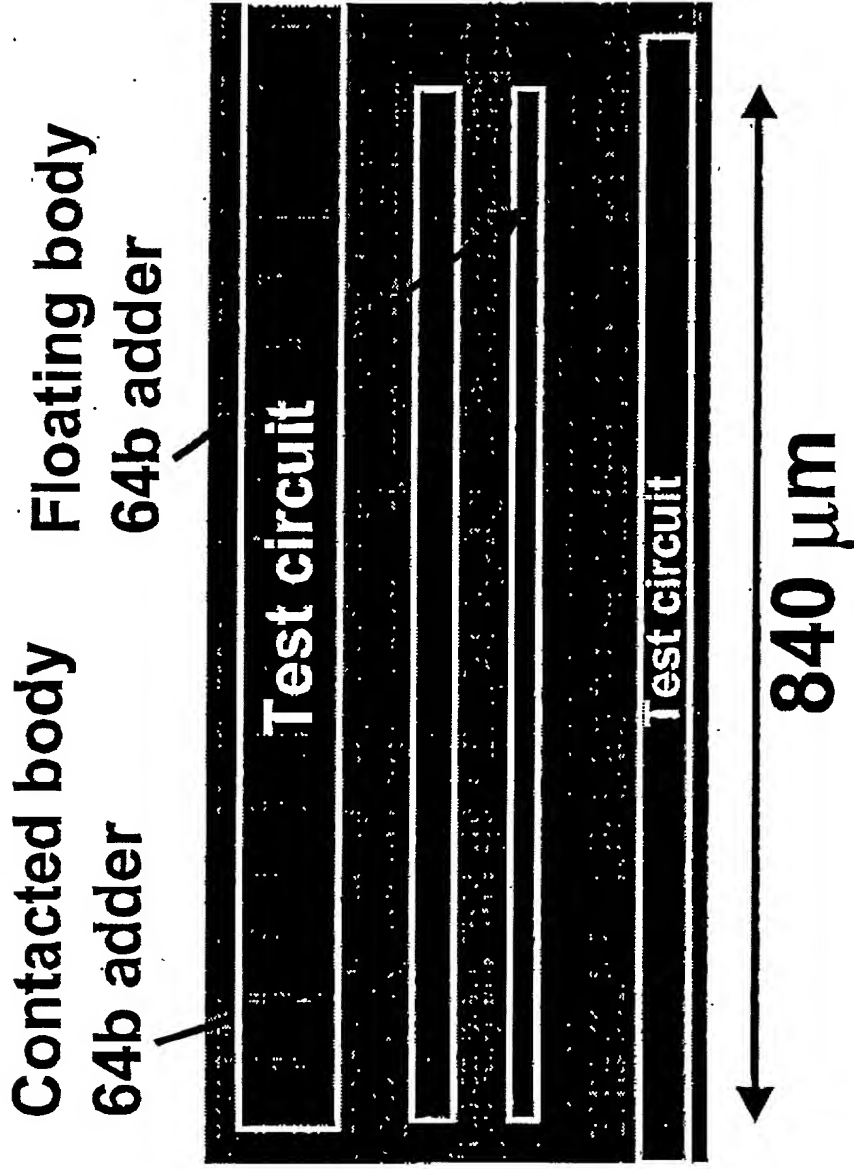


FIG. 14

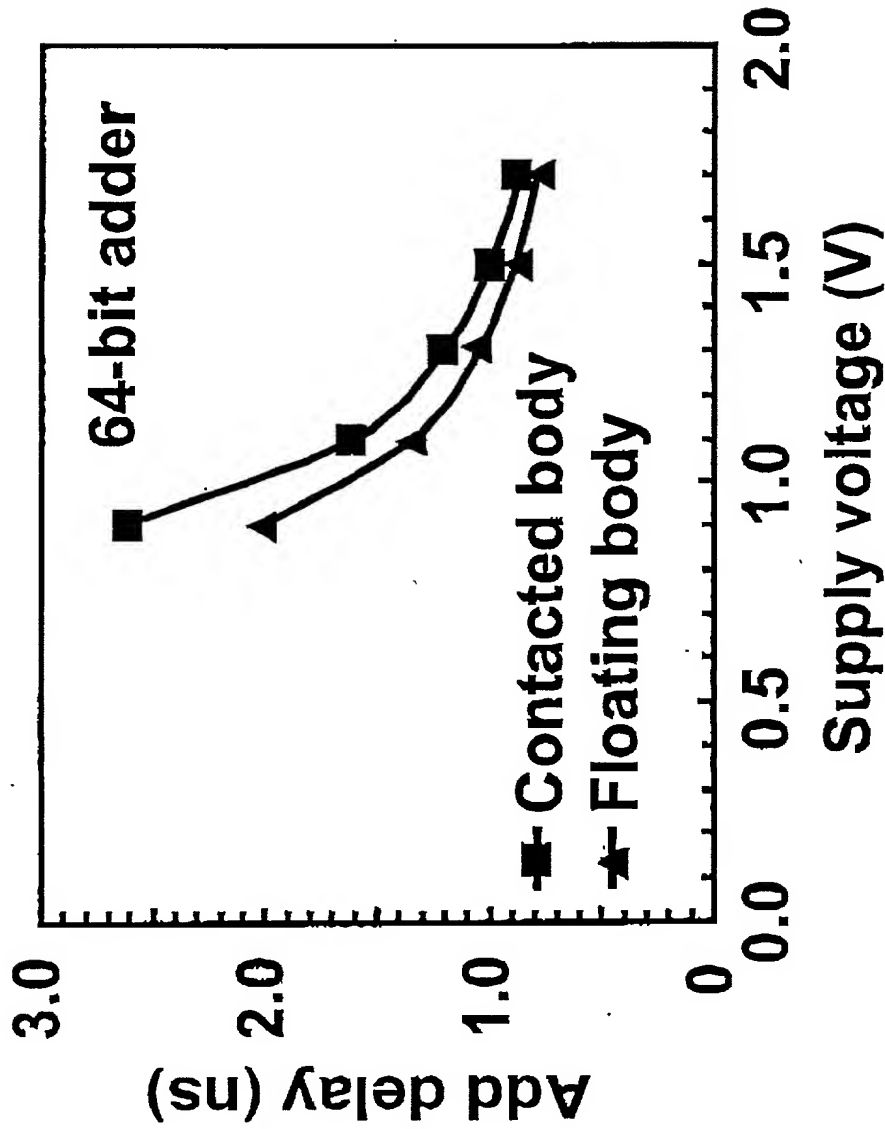


FIG. 15

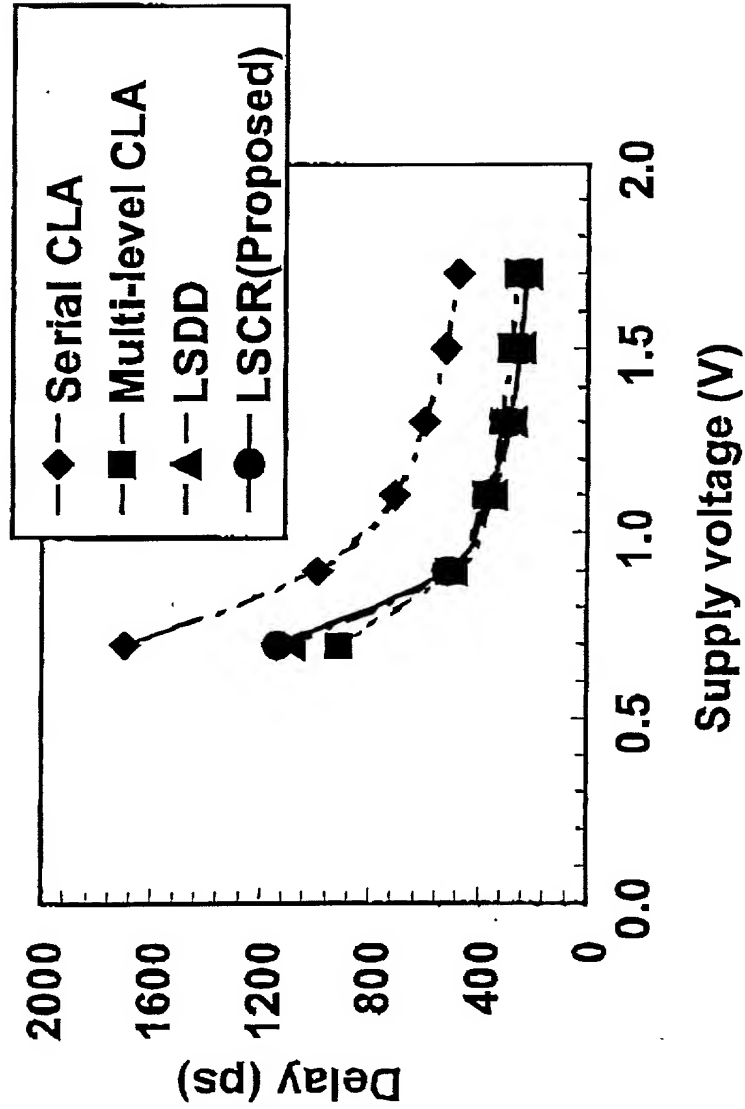


FIG. 16

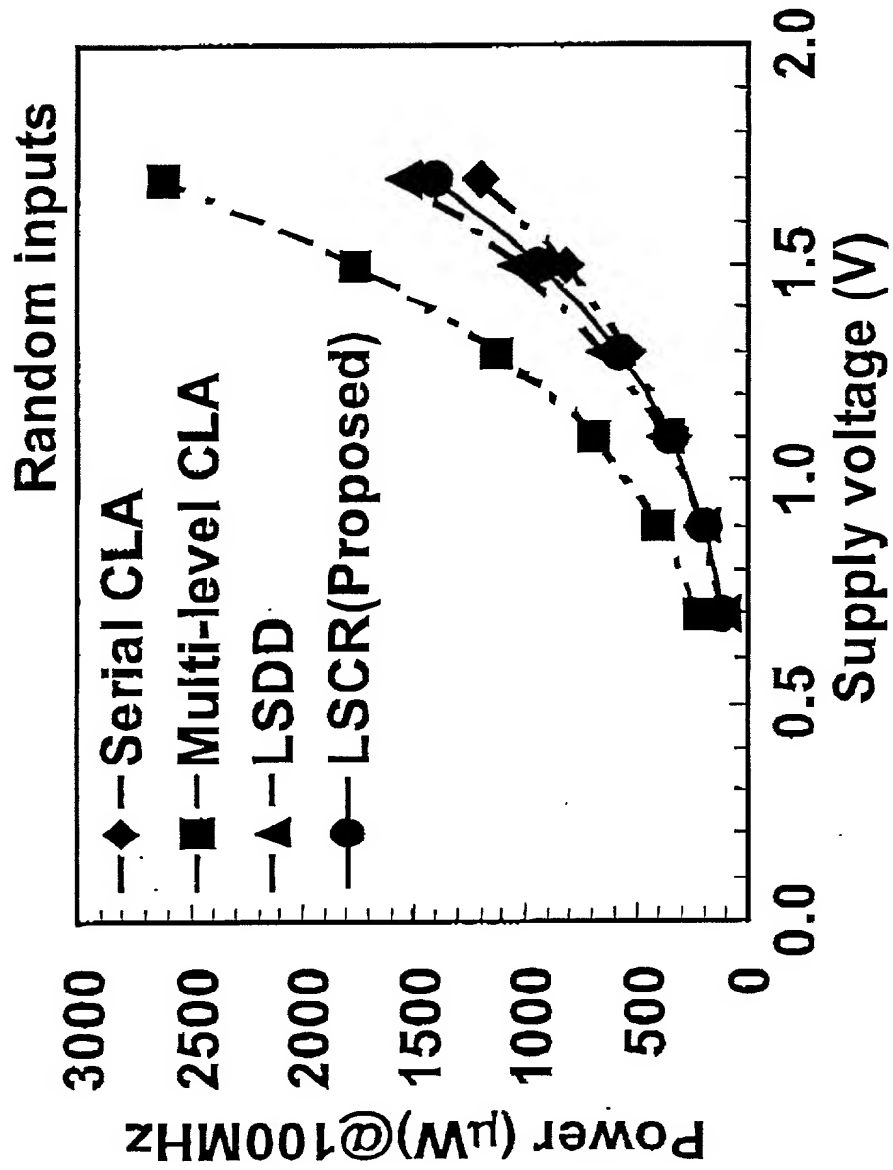


FIG. 17

